

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number
WO 2005/008523 A2

(51) International Patent Classification⁷: **G06F 17/30, G10L 15/08**

(21) International Application Number:
PCT/GB2004/003084

(22) International Filing Date: **16 July 2004 (16.07.2004)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
0316669.1 16 July 2003 (16.07.2003) GB

(71) Applicant (for all designated States except US): **CANON KABUSHIKI KAISHA [JP/JP]; 30-2 3-Chome Shimo-maruko, Ohta-Ku, Tokyo (JP).**

(71) Applicant and

(72) Inventor (for all designated States except US): **JOSI-FOVSKI, Ljubomir [MK/GB]; 1B Cumberland Street, Staines, Middlesex TW18 3EF (GB).**

(74) Agents: **BERESFORD, Keith, Denls, Lewis et al.; Beresford & Co, 16 High Holborn, London WC1V 6BX (GB).**

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

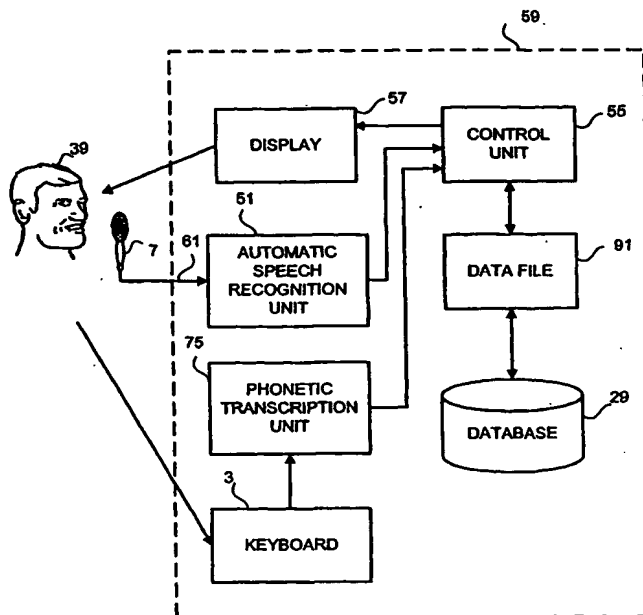
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **LATTICE MATCHING**



(57) Abstract: A system is described for matching lattices such as phoneme lattices generated by an automatic speech recognition unit. The system can be used to retrieve files from a database by comparing a query lattice with annotation lattices associated with the data files that can be retrieved, and by retrieving the data files having an annotation lattice most similar to the query lattice.

WO 2005/008523 A2